

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Currently amended) A method of simulating a system, the method
2 comprising:
3 modeling the system to be simulated using computer code to produce a system
4 model comprising at least a first portion and a second portion;
5 in a simulator, performing simulation in a first simulation mode having a first
6 accuracy level for at least a first portion of code ~~that models at least a~~ comprising the first portion
7 of the system model; and
8 in the same simulator, performing simulation in a second simulation mode having
9 a second accuracy level different from the first accuracy level for at least a second portion of
10 code ~~that models at least a~~ comprising the second portion of the system model.
- 1 2. (Previously presented) The method of claim 1, wherein the first simulation
2 mode comprises a functional simulation mode in which behavior of the system represented by
3 the first portion of code is simulated without regard to execution time to thereby obtain
4 information about functionality of the first portion of the simulated system;
5 and the second simulation mode comprises a performance simulation mode in
6 which behavior of system represented by the second portion of code is simulated with regard to
7 execution time to thereby obtain information about the performance of the second portion of the
8 simulated system.
- 1 3. (Previously presented) The method of claim 1, wherein the different modes
2 are invoked within a single simulation program execution run.
4. (canceled)
- 1 5. (Previously presented) The method of claim 2, further comprising adjusting
2 the second accuracy level of the second performance simulation mode.

1 6. (Previously presented) The method of claim 5, wherein the second portion of
2 code includes two portions of code, and the method further comprises adjusting the second
3 accuracy level for the two portions of code independently of each other.

7-9. (canceled)

1 10. (Previously presented) A simulation system for simulating the performance
2 of an external system, the simulation system comprising:
3 a module for performing simulation in a first simulation mode having a first
4 accuracy level for at least a first portion of code that models at least a portion of the external
5 system; and
6 a module for performing simulation in a second simulation mode having a second
7 accuracy level different from the first accuracy level for at least a second portion of code that
8 models at least a portion of the external system.

1 11. (Previously presented) The system of claim 10, wherein the first simulation
2 mode comprises a functional simulation mode in which behavior of the external system
3 represented by the first portion of code is simulated without regard to execution time to thereby
4 obtain information about functionality of the first portion of the simulated external system; and
5 the second simulation mode comprises a performance simulation mode in which behavior of the
6 external system represented by the second portion of code is simulated with regard to execution
7 time to thereby obtain information about the performance of the second portion of the simulated
8 external system.

1 12. (currently amended) The system of claim 10, wherein the different modes are
2 invoked within a single simulation program execution run.

13. (canceled)

1 14. (Previously presented) The system of claim 11, further comprising a module
2 for facilitating adjustment of the second accuracy of the second performance simulation mode

1 15. (currently amended) The system of claim 11, wherein the second portion of
2 code includes two portions of code and the system further comprises a module for facilitating the
3 adjustment of the second accuracy of the performance simulation mode for the two portions of
4 code independently of each other.

16. (canceled)

1 17. (Previously presented) The method of claim 1 wherein the step of modeling
2 the external system to be simulated using computer code includes modeling all of the external
3 system to be simulated;
4 the step of performing simulation in a first simulation mode includes performing a
5 functional simulation on all of the external system;
6 the step of performing simulation in a second simulation mode includes
7 performing a performance simulation at least a part of the external system; and
8 the first simulation mode and the second simulation mode are performed during a
9 single simulation program execution run.

1 18. (Previously presented) The system of claim 10 wherein all of the system to
2 be simulated is modeled using computer code;
3 the module for performing simulation in a first simulation mode performs a
4 functional simulation on all of the external system;
5 the module for performing simulation in a second simulation mode performs
6 simulation of at least a part of the external system; and
7 the modules for performing the first simulation mode and the second simulation
8 mode are invoked during a single simulation program execution run.